

## **Results for the 12'x60' circular tank with ramp:**

### **Circular tank:**

Tank Diameter = 60 ft

Tank Wall thickness = 10 in (actual)

Tank Height = 12 ft

$f_y = 60,000$  psi

$f'_c = 4,000$  psi

Horizontal Steel = #4 rebar		
Bar #	Spacing (in)	Distance from finished floor (ft - in)
1	3	0' 3"
2	12	1' 3"
3	10	2' 1"
4	10	2' 11"
5	9	3' 8"
6	9	4' 5"
7	9	5' 2"
8	9	5' 11"
9	9	6' 8"
10	10	7' 6"
11	10	8' 4"
12	12	9' 4"
13	12	10' 4"
14	12	11' 4"
15	5	11' 9"

Vertical Steel = #4 @ 10" O.C.

Dowels "L" bars shall be #4 @ 10" O.C. with a horizontal leg of 8" and a vertical leg of 26"


For a length of 60 feet, centered on the ramp, substitute #5 rebar for the #4 horizontal rebar for bars #3 to bar #10 in the tank.

In the tank wall, at the notch for the ramp add:

4-#6 bars x 11'-10" long @ 4" O.C. vertically.

4-#6 bars x 20' long @ 4" O.C. horizontally.

4-#6 bars x 6' long @ 4" O.C. at a 45 degree angle.

 <i>Natural Resources Conservation Services</i> <i>United States Department of Agriculture</i>	<div>_____ County, PA</div> <div><b>ROUND TANK W/RAMP</b></div> <div><b>DETAIL Page 6.20</b></div>	Designed <u>PA NRCS</u> <u>12/01</u>
		Drawn <u>Hartz</u> <u>2/1/08</u>
		Revisions <u>Pereverzoff</u> <u>1/9/08</u>
		Checked _____
		Approved _____